

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P295595

Luminaire Tested: **14RLN-LD5-40-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-085-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-40-UNV-L82765-W2A1-U-3000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3830.0 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.01 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

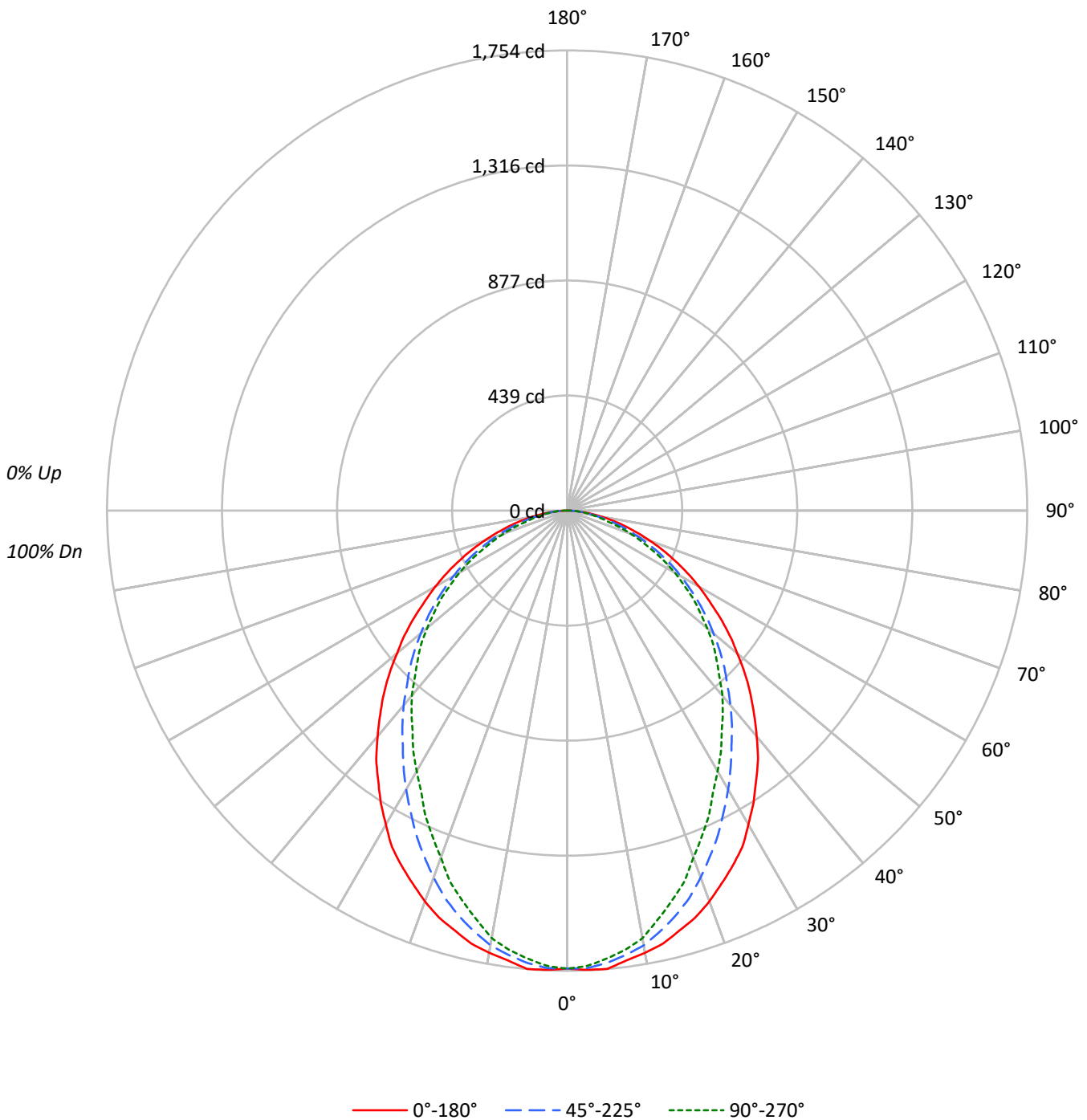
Input Watts (W): 39.153
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295595

CATALOG NUMBER: 14RLN-LD5-40-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P295595

CATALOG NUMBER: 14RLN-LD5-40-UNV-L82765-W2A1-U-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47					47			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33					33			
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4697	4697	4697
5°	4737	4676	4632
10°	4677	4597	4522
15°	4615	4453	4291
20°	4540	4262	4030
25°	4434	4045	3799
30°	4293	3815	3564
35°	4124	3587	3375
40°	3949	3404	3234
45°	3762	3226	3066
50°	3542	3048	2912
55°	3339	2876	2755
60°	3126	2699	2551
65°	2895	2493	2287
70°	2635	2240	2024
75°	2372	2001	1648
80°	2030	1630	1554
85°	1649	1550	1550



TEST NUMBER: P295595

CATALOG NUMBER: 14RLN-LD5-40-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.4	4.3
10°-20°	448.6	11.7
20°-30°	629.6	16.4
30°-40°	698.3	18.2
40°-50°	670.3	17.5
50°-60°	561.8	14.7
60°-70°	394.4	10.3
70°-80°	205.9	5.4
80°-90°	57.6	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1241.6	32.4
0°-40°	1939.9	50.6
0°-60°	3172.1	82.8
0°-90°	3830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3830.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1746	1746	1746	1746	1746	
5°	1754	1731	1731	1720	1715	166
15°	1657	1628	1598	1556	1540	467
25°	1493	1440	1362	1296	1280	687
35°	1255	1186	1092	1039	1027	786
45°	988	912	848	815	806	761
55°	712	658	613	594	587	637
65°	455	424	392	367	359	452
75°	228	210	192	170	158	242
85°	53	50	50	50	50	63
90°	0	0	0	0	0	



TEST NUMBER: P295595

CATALOG NUMBER: 14RLN-LD5-40-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1745.6	1745.6	1745.6	1745.6	1745.6
2.5°	1752.0	1742.3	1745.6	1745.6	1737.5
5°	1753.6	1731.0	1731.0	1719.7	1714.8
7.5°	1729.4	1711.6	1708.4	1693.8	1688.9
10°	1711.6	1693.8	1682.5	1663.1	1655.0
12.5°	1690.6	1663.1	1642.0	1609.7	1596.7
15°	1656.6	1627.5	1598.3	1556.3	1540.1
17.5°	1625.8	1591.9	1548.2	1501.3	1483.5
20°	1585.4	1545.0	1488.3	1423.6	1407.4
22.5°	1538.5	1491.6	1425.2	1355.7	1342.7
25°	1493.2	1439.8	1362.2	1295.8	1279.6
27.5°	1446.3	1381.6	1292.6	1221.4	1205.2
30°	1381.6	1315.2	1227.9	1158.3	1147.0
32.5°	1321.7	1255.4	1159.9	1103.3	1090.4
35°	1255.4	1185.8	1092.0	1038.6	1027.3
37.5°	1195.5	1114.6	1032.1	980.4	973.9
40°	1124.3	1051.5	969.0	930.2	920.5
42.5°	1054.8	982.0	904.3	870.4	859.0
45°	988.5	912.4	847.7	815.3	805.6
47.5°	918.9	849.3	787.8	762.0	755.5
50°	846.1	784.6	728.0	703.7	695.6
52.5°	781.4	718.3	671.4	648.7	639.0
55°	711.8	658.4	613.1	593.7	587.2
57.5°	642.2	598.6	554.9	537.1	527.4
60°	580.8	537.1	501.5	480.5	474.0
62.5°	517.7	480.5	446.5	427.1	419.0
65°	454.6	423.9	391.5	367.2	359.1
67.5°	396.4	362.4	336.5	315.5	307.4
70°	334.9	310.6	284.7	265.3	257.2
72.5°	278.3	260.5	237.8	216.8	208.7
75°	228.1	210.3	192.5	169.9	158.5
77.5°	178.0	166.6	148.8	129.4	129.4
80°	131.0	124.6	105.2	101.9	100.3
82.5°	90.6	87.4	76.0	74.4	74.4
85°	53.4	50.2	50.2	50.2	50.2
87.5°	22.6	24.3	25.9	25.9	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)